### A3. Report Forms Test Method D 5579 (High Temperature Cyclic Durability Test)

#### Version Conducted For:

V = Valid
I = Invalid
N = Results Cannot be Interpreted. (Refer to Comment Section)

	Test Number
Stand:	Stand Run:
EOT Date:	<b>EOT Time:</b>
Oil Code:	
Formulation/Stand Code:	
Alternate Codes:	

In my opinion this test been conducted in a valid manner in accordance with the Test Method D 5579 and the appropriate amendments through the information letter system. The remarks included in the report describe the anomalies associated with this test.

	Submitted By:
Testing Laborator	
Signatui	
Typed Nam	
Tit	
TH.	
Sectio	

Fig A3.1 Test Report Cover

A CMIR or Non-Reference Oil Code

# Test Method D 5579 (High Temperature Cyclic Durability Test) Form 1 Test Result

Lab       Stand       Test Hardware Configuration       Completed       Total       Stand         Oil Code:       No. of Cycles to Unsynchronized Shifts:       Accompleted       Hours       No.         Laboratory Oil Code:       1 = Client request       Accompleted       Hours       No.         Reason for Test Termination:       2 = Unsynchronized shifts (gear clashing)       Accomments section)         Test stand and laboratory in accordance with information letters through:       Accomments section)         Formulation / Stand Code:       Formulation / Stand Code:							
Test Hardware Configuration  nized Shifts.  1 = Client request 2 = Unsynchronized shifts (gear clashing) 3 = Unable to maintain test conditions or other (see comments section accordance with information letters through:						Total	Stand
Test Hardware Configuration Completed Hours  nized Shifts:  1 = Client request 2 = Unsynchronized shifts (gear clashing) 3 = Unable to maintain test conditions or other (see comments section) n accordance with information letters through:					Date	Test	Run
nized Shifts: on: n accordance with i	Lab	Stand	Test Hardwar	e Configuration	Completed	Hours	No.
nized Shifts: on: n accordance with i							
nized Shifts: on: n accordance with i	Oil Code:						
n: n accordance with i	No. of Cy	cles to Unsyr	chronized Shifts:				
n: n accordance with i	Laborato	rry Oil Code:					
n: n accordance with i				1 = Client request			
n accordance with i	Reason fo	or Test Term	ination:	2 = Unsynchronized shifts	s (gear clashing)		
n accordance wi				3 = Unable to maintain te	est conditions or other	(see comments s	section)
Formulation / Stand Code:	Test stand	d and labora	tory in accordance with	information letters throug	;h:		
	Formulat	tion / Stand C	ode:				

	Stand	Stand Operationally	y Valid Ref	erence Oil	Test History	y In Chrone	ly Valid Reference Oil Test History In Chronological Order	
Reference	Test		Total	Stand		TMC	No. of Cycles to	
Oil Performance	HE	Test Date Completed	Test Hours	Run No.	CMIR No.	Oil No.	Unsynchronized Shifts	Laboratory Oil Code
Low								
High								
High								
High								
High								
High								
		Average Cy	cles For Hi	igh Referen	Average Cycles For High Reference Oil Tests			

Fig A3.2 Test Result Summary

#### Test Method D 5579 (High Temperature Cyclic Durability Test) Form 2

#### **Test Conditions and Measurement Summary**

Lab:	Stand:
Oil Code:	Stand Run:

	Test Condition	ns	
<b>Test Length, hours</b>		Warm-up Time, min	utes
Parameter	Minimum	Maximum	Average
Tailshaft Speed, r/min			
Oil Sump Temp., °F			
Shift Air Pressure, psi			

	]	Pre-Test Me	asurement	S		
Countershaft Number	1A	2A	3A	Spec.		
Final Pre-Load, in. 0.0020 – 0.0060				Break	Turn	
	Torque, lbf	-in. (low ran	ge)			

	Test R	esults	
Range Fork No.			
		Left	Right
Pre-Test Pad Hardi	ness, R <sub>c</sub>		
Pre-Test Pad Measu	arement Thickness, in.		
<b>Post-Test Pad Meas</b>	urement Thickness, in.		
Total Wear, in.			
Average Wear, in.			

		Rear Friction	Disc Thickness, in.	
Disc	1	2	3	4
Pre-Test				
Post-Test				
Wear				

		Front Friction	Disc Thickness, in.	
Disc	5	6	7	8
Pre-Test				
Post-Test				
Wear				

Fig. A3.3 Test Conditions and Measurement Summary

## Test Method D 5579 (High Temperature Cyclic Durability Test) Downtime and Comments Form 3

Lab:	:				Stand:	
Oil (	Code:				<b>Stand Run:</b>	
<b>Test</b>	Lost Time: Record: T with reaso	he time shutens	down, time off test conditio num oil temperature in deg	ns, early inspect trees Fahrenheit	tions/termination	
Nı		owntime Occ				
Test						
lours	Date	Downtime		Reasons		
Į.				Total Downti	ime	
Other	Comment	S				
Numb	er of Comn	nent Lines				
Num	ber of Cycle	e Shift Plots				

Fig. A3.4 Downtime Comments and Summary

## Test Method D 5579 (High Temperature Cyclic Durability Test) Downtime and Comments Form 3A

Lab:			Stand:
Oil C	ode:		Stand Run:
Test L	ost Time: Record: Tl		own, time off test conditions, early inspections/termination um oil temperature in degrees Fahrenheit.
		owntime Occu	
Test			
Hours	Date	Downtime	Reasons
		+	
		1	
			Total Downtime
			1 otal Downtime
Other	Comments	S	
	er of Comn		

Fig. A3.4 Downtime Comments and Summary

## Test Method D 5579 (High Temperature Cyclic Durability Test) Downtime and Comments Form 3B

Lab:	1					Stand:	
Oil C						Stand Run:	
		he time shut	down, time off test cor				
		ons and minii Towntime Occ	num oil temperature	n aegro	ees Fanrenne	<u>lt.</u>	
Test	inder of D		urrences				
Hours	Date	Downtime			Reasons		
					<b>Total Downt</b>	time	
			$\neg$				
	Comment						
Numbe	er of Com	ment Lines					
							_
				1			
Numb	er of Cycl	le Shift Plots					

Fig. A3.4 Downtime Comments and Summary

# Test Method D 5579 (High Temperature Cyclic Durability Test) Form 4 Shift Graphs

Lab: St	tand:
Oil Code: St	tand Run:

# Test Method D 5579 (High Temperature Cyclic Durability Test) Form 5 Shift Time Graphs

Stand:	e: Stand Run:
Lab:	Oil Code: